



Trends in Healthcare

Massachusetts Building Congress
15 September 2011t



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Key Trends in Healthcare Projects

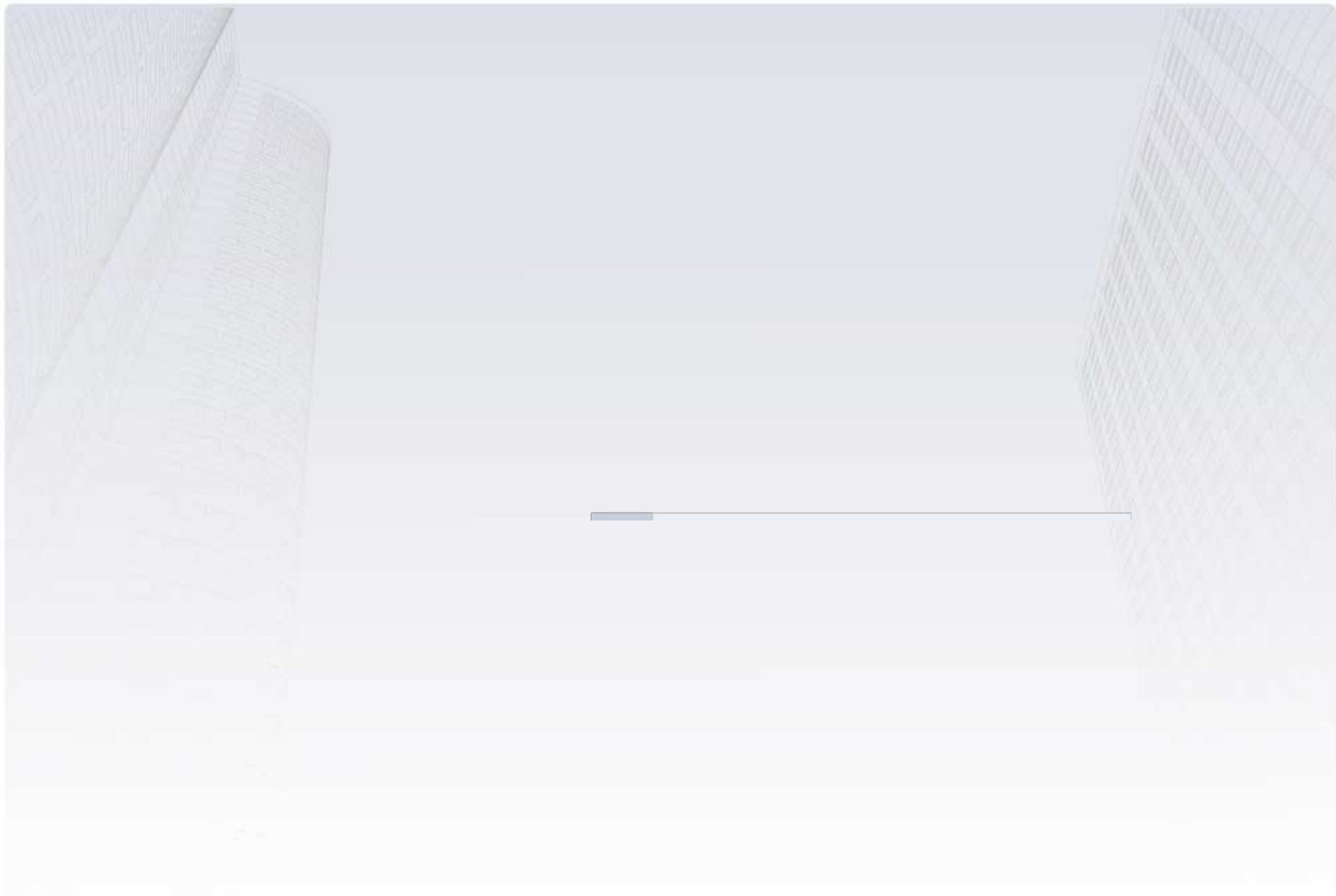


- ✓ Intensive Use of BIM
- ✓ Sustainable Design and Construction
- ✓ Lean Processes and Techniques
- ✓ Early Trade Involvement



IPD is a

- *Value Based*
- *Virtual Organization*
- *Aligned to the Project*



Structure

Early Involvement of Key Participants

Shared Risk/Reward Based on Project Outcome

Joint Project Control

Collaborative Decision Making

Reduced Liability Exposure

Jointly Developed/Validated Targets





IPD Structure



Multiparty Integrated Agreement



Levels of Collaboration



- Macro (Business & Legal Structures)
 - Remove Dysfunctions
 - Encourage Favorable Behaviors
 - Align Interests
 - Define Roles and Responsibilities
- Micro (Work and Team Design)
 - Team Organization
 - Workflow Processes
 - Co-location
 - Building Information Modeling
- Personal (Team Dynamics)
 - Team Selection
 - Training
 - Leadership

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An IPD Example

**Sutter Health Castro
Valley**





- \$320 Million (Original Estimate \$356 Million)
- 70% Complete
- 26 Owner Originated Changes (<1%)
- 333 RFIs (Normal 3,000)
- \$5.8 Million Contingency (only \$2.2 used)
- Scheduled for early completion



- *IPD: A Working Definition* (AIACC, 2007)
- *IPD: A Guide* (AIA/AIACC, 2008)
- *Negotiating an IPD Agreement* (Hanson Bridgett, 2009)
- *IPD Case Studies* (AIA/AIACC, 2010)
- *IPD Case Studies* (AIA 2011)
- *Managing Integrated Project Delivery* (CMAA, 2010)
- *IPD For Public and Private Owners* (NAFSA, COAA, APPA, AIA, AGC, 2010)
- *Comparison of IPD Agreements* (Hanson Bridgett, 2010)
- *IFOA Executive Summary* (Hanson Bridgett, 2010)
- *Project Alliancing Practitioner's Guide* (Government of Victoria , 2006)



www.ipd-ca.net

www.aia.org/ipd

www.consensusdocs.org

www.leanconstruction.org

www.bmimforum.org

www.hansonbridgett.com